

1 1. A substantially pure DNA encoding a naturally-  
2 occurring platelet activation polypeptide, said polypeptide  
3 comprising a sequence at least 70% identical to SEQ ID NO:1.

1 2. A substantially pure DNA encoding a polypeptide  
2 comprising an amino acid sequence identical to at least 95%  
3 of SEQ ID NO:4.

1 3. The DNA of claim 2, wherein said DNA comprises  
2 the sequence of SEQ ID NO:3.

1 4. A substantially pure DNA comprising a strand of  
2 at least 20 nucleotides which hybridizes at high stringency  
3 to a DNA complementary to the coding sequence of SEQ ID  
4 NO:3.

1 5. The DNA of claim 2, wherein said DNA hybridizes  
2 at high stringency to a DNA probe consisting of a sequence  
3 of 50 nucleotides complementary to the coding sequence of  
4 SEQ ID NO:3.

1 6. A vector comprising the DNA of claim 2.

1 7. The DNA of claim 2, wherein said DNA is operably  
2 linked to regulatory sequences for expression of said  
3 polypeptide, said regulatory sequences comprising a  
4 promoter.

1 8. A cell comprising the DNA of claim 7.

1 *int. pl.* 9. A substantially pure polypeptide comprising a  
2 sequence identical to at least 95% of SEQ ID NO:4.

1 A) 10. The polypeptide of claim 9, said polypeptide  
2 comprising the amino acid sequence encoded by SEQ ID NO:3.

1 11. An antibody which specifically binds to the  
2 polypeptide of claim 9.

1 12. The antibody of claim 11, wherein said antibody  
2 binds to the same epitope as MAb 3B2.

1 13. The antibody of claim 11, wherein said antibody  
2 is linked to a detectable label.

1 14. A method of detecting an activated platelet in  
2 a biological sample, comprising contacting said sample with  
3 the antibody of claim 11 and determining whether said  
4 antibody binds to a component of said sample, said binding  
5 being an indication that said sample contains an activated  
6 platelet.

1 15. A method of localizing a platelet thrombus in  
2 an animal, comprising administering to said animal the  
3 antibody of claim 13, and determining where in said animal  
4 said label localizes, wherein detection of said label at a  
5 site in said animal indicates the existence of a platelet  
6 thrombus at said site.

1 16. A method of targeting a compound to an  
2 activated platelet in an animal, comprising administering to  
3 said animal a composition comprising said compound linked to  
4 the antibody of claim 11.

1 17. The method of claim 16, wherein said compound  
2 is an antithrombotic agent, a thrombolytic agent, an anti-  
3 proliferative agent, or an anti-migration agent.

1 ~~18. A polypeptide comprising an antigenic fragment~~  
2 ~~of the polypeptide of claim 9.~~

1 19. A substantially pure polypeptide having the  
2 sequence of a naturally-occurring platelet activation  
3 polypeptide that comprises an epitope which binds to MAb  
4 3B2.

1 20. A method of detecting an activated platelet  
2 protein complex in a biological sample, comprising  
3 contacting said sample with the antibody of claim 11 and  
4 determining whether said antibody binds to a component of  
5 said sample having a molecular weight of approximately  
6 145 kDa under non-reducing conditions.

1 21. A substantially pure activated platelet complex  
2 (APCOM) comprising a polypeptide which binds to the antibody  
3 of claim 11.